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L2 and kretz.in.	9

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L4

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Search History

DATE: Monday, June 23, 2003 [Printable Copy](#) [Create Case](#)

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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR

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<u>L2</u>	L1 same (recombin\$6 or clon\$6 or isolat\$5)	62	<u>L2</u>
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END OF SEARCH HISTORY

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DP

L1: Entry 4 of 4

File: USPT

Mar 2, 1999

US-PAT-NO: 5876997

DOCUMENT-IDENTIFIER: US 5876997 A

TITLE: Phytase

DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kretz; Keith	San Marcos	CA		

US-CL-CURRENT: 435/196; 435/252.1, 435/320.1, 435/325, 435/69.1, 536/23.2

CLAIMS:

What is claimed is:

1. An isolated polynucleotide selected from the group consisting of:

a) SEQ ID NO:1;

b) SEQ ID NO:1 wherein T is substituted with U.

2. An isolated polynucleotide encoding a phytase having the amino acid sequence of SEQ ID NO:2.

3. The polynucleotide of claim 2, wherein the polynucleotide is isolated from a prokaryote.

4. An expression vector comprising the polynucleotide of claim 2.

5. The vector of claim 4, wherein the vector is a plasmid.

6. The vector of claim 4, wherein the vector is virus-derived.

7. A host cell transformed with the vector of claim 4.

8. The host cell of claim 7, wherein the cell is prokaryotic.

9. A method for producing an enzyme comprising growing a host cell of claim 7 under conditions which allow the expression of the enzyme and isolating the enzyme encoded by the nucleic acid.

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L1: Entry 1 of 4

File: USPT

Feb 20, 2001

US-PAT-NO: 6190897

DOCUMENT-IDENTIFIER: US 6190897 B1

TITLE: Phytase

DATE-ISSUED: February 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kretz; Keith	San Marcos	CA		

US-CL-CURRENT: 435/196; 435/252.1, 435/320.1, 435/325, 536/23.1, 536/23.2

CLAIMS:

What is claimed is:

1. An isolated polynucleotide encoding a phytase having the amino acid sequence of SEQ ID NO:2.
2. An isolated polynucleotide selected from the group consisting of:
 - a) SEQ ID NO:1;
 - b) SEQ ID NO:1 wherein T is substituted with U.
3. The polynucleotide of claim 1, wherein the polynucleotide is isolated from a prokaryote.
4. An expression vector comprising the polynucleotide of claim 1.
5. The vector of claim 4, wherein the vector is a plasmid.
6. The vector of claim 4, wherein the vector is virus-derived.
7. A host cell transformed with the vector of claim 4.
8. The host cell of claim 7, wherein the cell is prokaryotic.
9. A method for producing an enzyme comprising growing a host cell of claim 7 under conditions which allow the expression of the enzyme and isolating the enzyme encoded by the nucleic acid.

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L1: Entry 2 of 4

File: USPT

Feb 6, 2001

US-PAT-NO: 6183740

DOCUMENT-IDENTIFIER: US 6183740 B1

TITLE: Recombinant bacterial phytases and uses thereof

DATE-ISSUED: February 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Short; Jay M.	Rancho Santa Fe	CA		
Kretz; Keith A.	San Marcos	CA		

US-CL-CURRENT: 424/94.6; 435/196, 536/23.2

CLAIMS:

What is claimed is:

1. A method for improving the nutritional value of a phytate-containing foodstuff comprising:

contacting said phytate-containing foodstuff with a substantially pure phytase enzyme having an amino acid sequence of SEQ ID NO:2, such that said substantially pure phytase enzyme catalyzes the liberation of inorganic phosphate from the phytate in said phytate-containing foodstuff.

2. The method according to claim 1 wherein said substantially pure phytase enzyme is produced by a recombinant expression system comprising a first phytase-encoding nucleic acid having a nucleotide sequence selected from the group consisting of:

a) SEQ ID NO: 1, and

b) SEQ ID NO:1 wherein T can also be U;

wherein the expression of the phytase-encoding nucleic acid leads to the production of said substantially pure phytase enzyme.

3. The method according to claim 1 wherein the liberation of the inorganic phosphate from the phytate in said phytate-containing foodstuff occurs prior to the ingestion of said phytate-containing foodstuff by a recipient organism.

4. The method according to claim 1 wherein the liberation of the inorganic phosphate from the phytate in said phytate-containing foodstuff occurs after the ingestion of said phytate-containing foodstuff by a recipient organism.

5. The method according to claim 1 wherein the liberation of the inorganic phosphate from the phytate in said phytate-containing foodstuff occurs in part prior to and in part after the ingestion of said phytate-containing foodstuff by a recipient organism.

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L1: Entry 3 of 4

File: USPT

Aug 29, 2000

US-PAT-NO: 6110719

DOCUMENT-IDENTIFIER: US 6110719 A

**** See image for Certificate of Correction ****

TITLE: Phytase

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kretz; Keith	San Marcos	CA		

US-CL-CURRENT: 435/196; 424/442, 424/94.6

CLAIMS:

What is claimed is:

1. Substantially pure phytase having an amino acid sequence as set forth in SEQ ID NO:2.
2. The phytase of claim 1, wherein the phytase is encoded by SEQ ID NO:1.
3. A phytase of claim 1, wherein said amino acid sequence is encoded by a nucleic acid sequence 90 percent identical to the sequence set forth in SEQ ID NO:1.
4. A phytase of claim 1, wherein said amino acid sequence is encoded by a nucleic acid sequence 95 percent identical to the sequence set forth in SEQ ID NO:1.
5. A phytase of claim 1, wherein said amino acid sequence is encoded by a nucleic acid sequence 97 percent identical to the sequence set forth in SEQ ID NO:1.
6. An animal feed composition comprising a microbial phytase having an amino acid sequence as set forth in SEQ ID NO:2.
7. An animal feed composition comprising a microbial phytase encoded by the polynucleotide of SEQ ID NO:1.

=> d his

(FILE 'HOME' ENTERED AT 16:42:25 ON 23 JUN 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,
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DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:42:38 ON
23 JUN 2003

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L1 QUE PHYTAS? (S) COLI?

FILE 'DGENE, USPATFULL, CAPLUS, BIOTECHDS, BIOSIS, SCISEARCH, ESBIODBASE,
MEDLINE, BIOTECHNO, EMBASE, PASCAL, CABA, IFIPAT, WPIDS' ENTERED AT
16:43:50 ON 23 JUN 2003

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L3 281 S L2 (S) (RECOMBIN? OR ISOLAT? OR CLON?)
L4 160 DUP REM L3 (121 DUPLICATES REMOVED)
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NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN
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NEWS	43	Jun 06	PASCAL enhanced with additional data
NEWS	44	Jun 20	2003 edition of the FSTA Thesaurus is now available

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

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 AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

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=> index bioscience medicine

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ENTRY	SESSION
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FULL ESTIMATED COST

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L1 QUE PHYTAS? (S) COLI?

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13 FILES SEARCHED...
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=> s l2 (s) (recombin? or isolat? or clon?)
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=> dup rem l3
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=> s l4 and kretz?
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L6 43 L4 AND SHORT?

=> d ti l6 1-43

L6 ANSWER 1 OF 43 DGENE (C) 2003 THOMSON DERWENT
T1 Producing recombinant protein in Gram-negative cells, especially for
producing enzymes, comprises using a gene controlled by a Gram-positive

promoter and permeabilized cells -

- L6 ANSWER 2 OF 43 DGENE (C) 2003 THOMSON DERWENT
TI Mutated acid phosphatase/phytase from Escherichia coli has improved enzymatic activity compared to the wild type and is useful as a food additive, particularly for animal feeds -
- L6 ANSWER 3 OF 43 DGENE (C) 2003 THOMSON DERWENT
TI Producing recombinant protein in Gram-negative cells, especially for producing enzymes, comprises using a gene controlled by a Gram-positive promoter and permeabilized cells -
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TI Phytase enzymes nucleic acids encoding phytase enzymes and vectors and host cells incorporating same
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TI Heat tolerant phytases

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 TI Cloning and expression of phytase from aspergillus

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 TI Recombinant bacterial phytases and uses thereof

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 TI Soybean phytase and nucleic acid encoding the same

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 TI Heat tolerant phytases

L6 ANSWER 25 OF 43 USPATFULL
 TI Animal feed compositions containing phytase derived from transgenic alfalfa and methods of use thereof

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 TI Polypeptides having phytase activity and nucleic acids encoding same

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 TI Peniophora phytase

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 TI DNA sequences encoding phytases of ruminal microorganisms

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 TI Phytases of ruminal microorganisms

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 TI Polypeptides having 3g6-phytase activity from thermomyces and nucleic acids encoding same

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 TI Cloning and expression of microbial phytase

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 TI Recombinant cells that express phytate degrading enzymes in desired ratios

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 TI Nucleic acid molecules encoding phytase and pH2.5 acid phosphatase

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 TI Phytase-protein-pigmenting concentrate derived from green plant juice

L6 ANSWER 41 OF 43 USPATFULL

TI Production of phytate degrading enzymes in trichoderma

L6 ANSWER 42 OF 43 USPATFULL

TI Cloning and expression of phytase from aspergillus

L6 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2003 ACS

TI Statistical optimization of seed and induction conditions to enhance
phytase production by **recombinant** Escherichia
coli

=> d his

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SEA PHYTAS? (S) COLI?

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L1 QUE PHYTAS? (S) COLI?

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 MEDLINE, BIOTECHNO, EMBASE, PASCAL, CABA, IFIPAT, WPIDS' ENTERED AT
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L2 613 S PHYTAS? (S) COLI?

L3 281 S L2 (S) (RECOMBIN? OR ISOLAT? OR CLON?)

L4 160 DUP REM L3 (121 DUPLICATES REMOVED)

L5 2 S L4 AND KRETZ?

L6 43 S L4 AND SHORT?

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ENTRY	SESSION
29.02	30.33

FULL ESTIMATED COST

SESSION WILL BE HELD FOR 60 MINUTES

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☐ 1: Plant Cell. 1989 Mar;1(3):285-91.

[Related Articles, Lin](#)

Entrez PubMed

Constitutive expression of pathogenesis-related proteins PR-1, GRP, and PR-S in tobacco has no effect on virus infection.

Linthorst HJ, Meuwissen RL, Kauffmann S, Bol JF.

Department of Biochemistry, State University of Leiden, The Netherlands.

Samsun NN tobacco cells were transformed with chimeric genes for pathogenesis-related (PR) proteins derived from genomic (PR-1a, GRP) or cDNA (PR-S) clones under the transcriptional control of the cauliflower mosaic virus 35S promoter. Regenerated plants were assayed by RNA and protein gel blotting and plants showing high specific expression of the inserted genes were selected for self-pollination and seed formation. Inspection of second generation transformants showed that constitutive expression of PR-1a, GRP, and PR-S in tobacco in general does not have an effect on the phenotypic appearance of the plants or the expression of other endogenous PR genes. Furthermore, constitutive expression of the above genes does not affect the susceptibility of the plants to infection with tobacco mosaic virus or alfalfa mosaic virus.

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